

FIG. 1

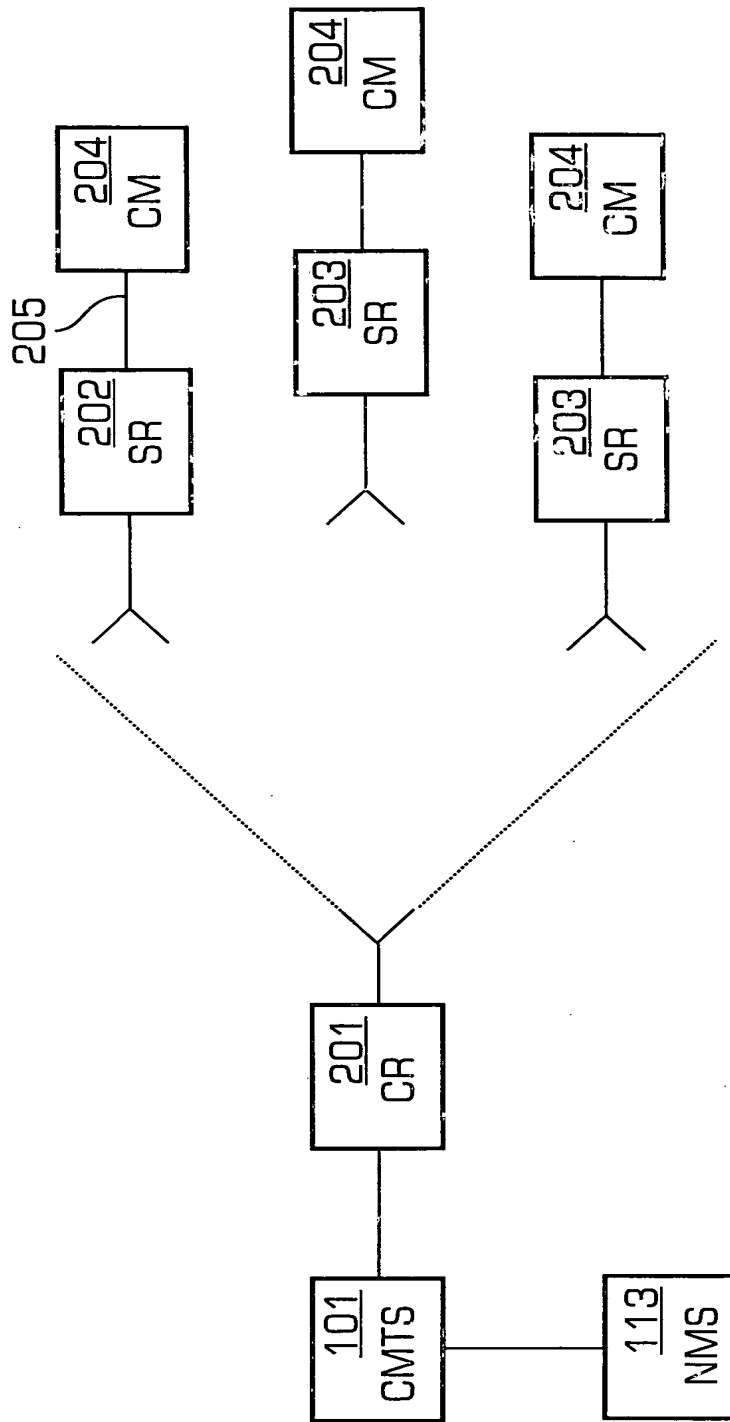


FIG. 2

FIG. 2 is a block diagram of a network architecture. A central control router (CR) 201 is connected to a cable modem termination system (CMTS) 101 and a network management system (NMS) 113. The CR 201 is also connected to three separate service routers (SR) 202. Each SR 202 is connected to a corresponding cable modem (CM) 204. The SRs 202 are collectively labeled 205. The CMTS 101 and NMS 113 are connected to the CR 201 via a Y-junction. The SRs 202 are connected to the CR 201 via a Y-junction.

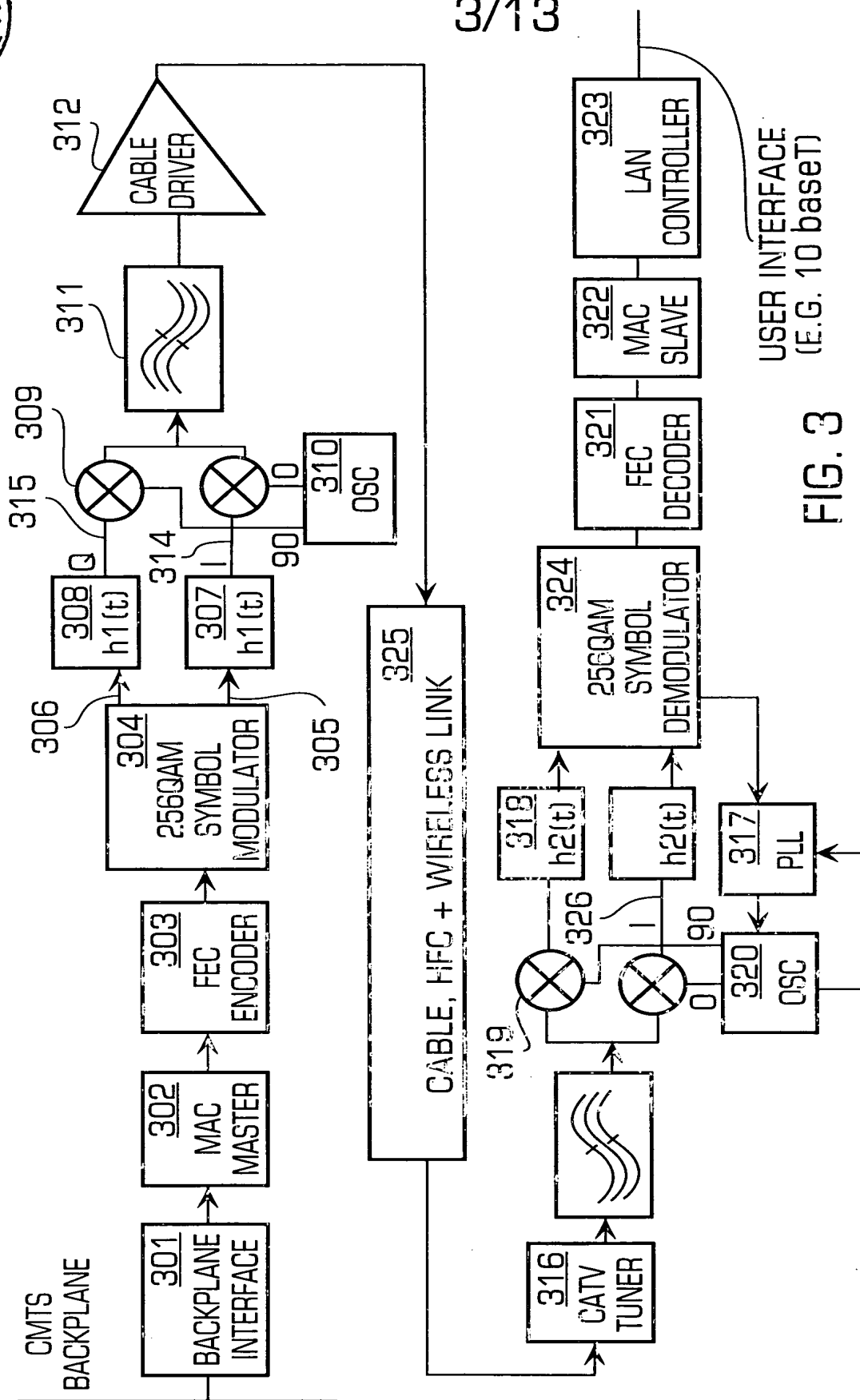


FIG. 3

106,201

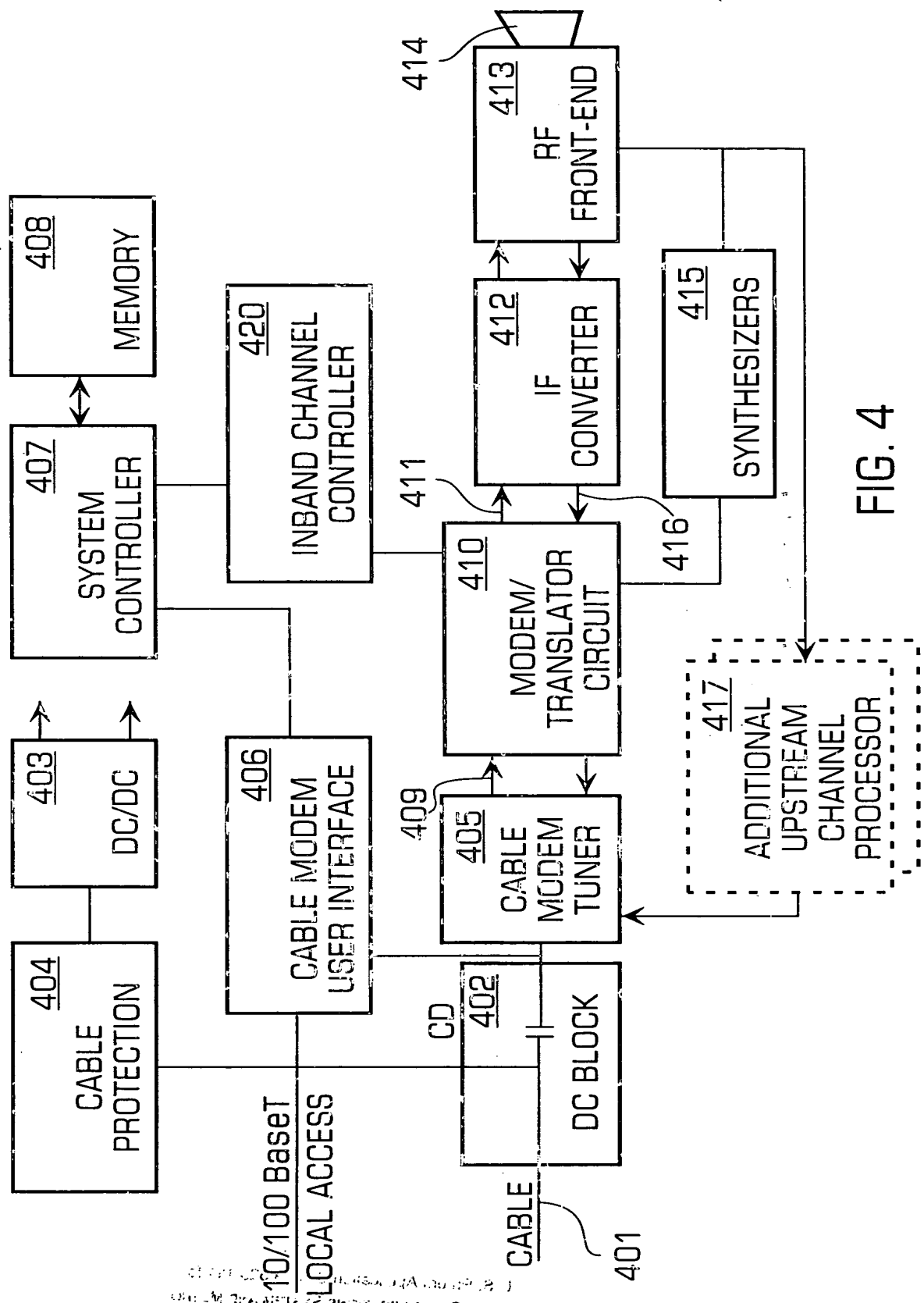


FIG. 4

10/100 BaseT LOCAL ACCESS
CABLE
CD
DC BLOCK
402
401

107,202, 203



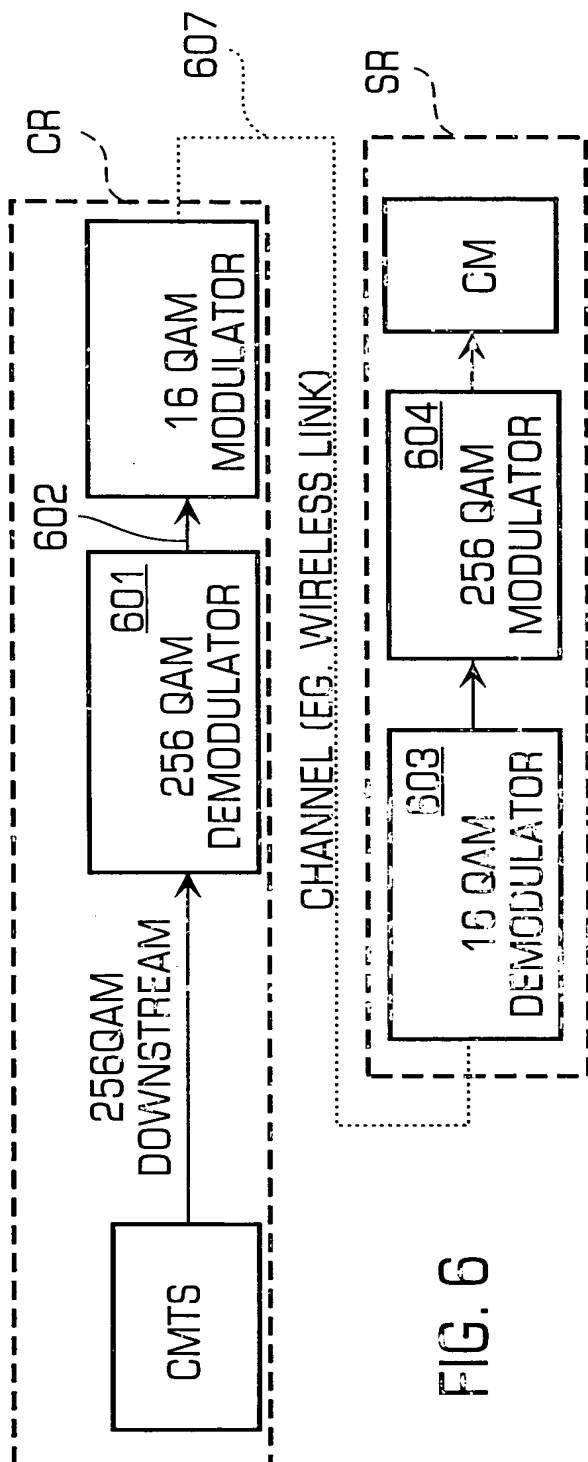


FIG. 6

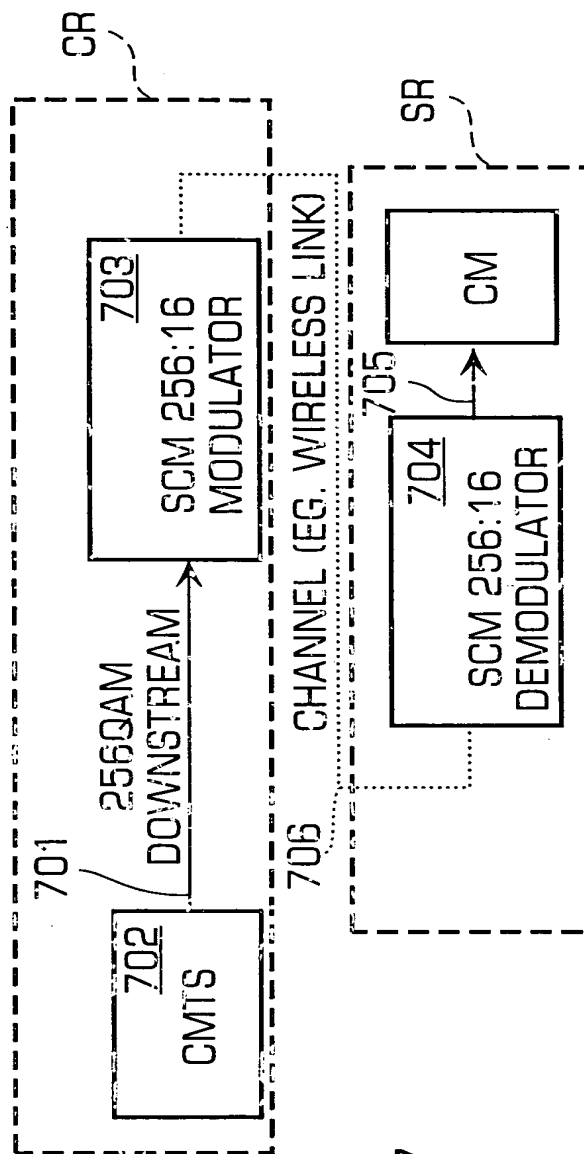


FIG. 7

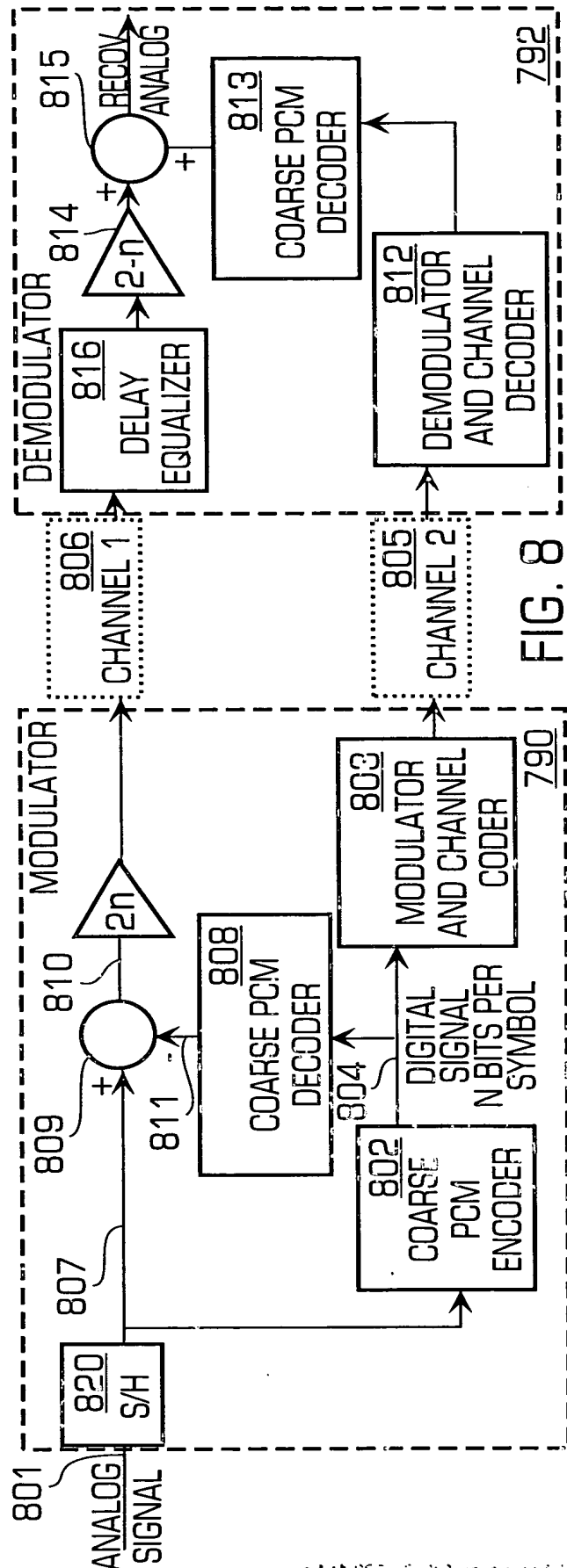


FIG. 8

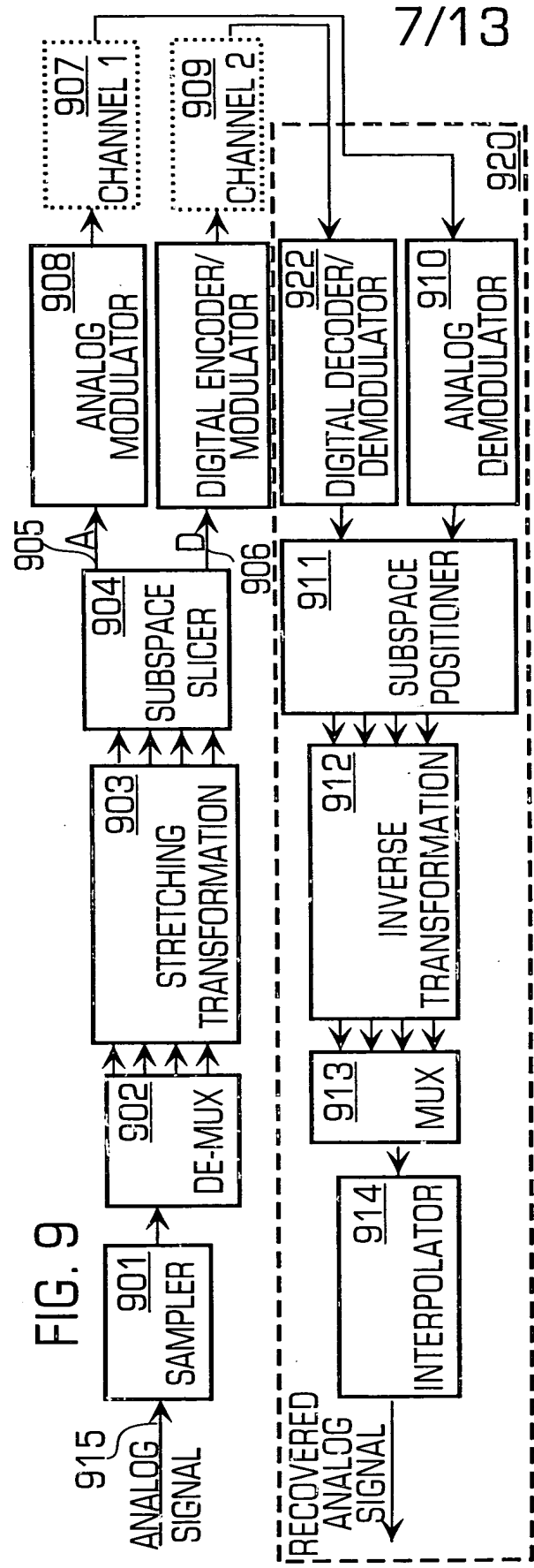


FIG. 9

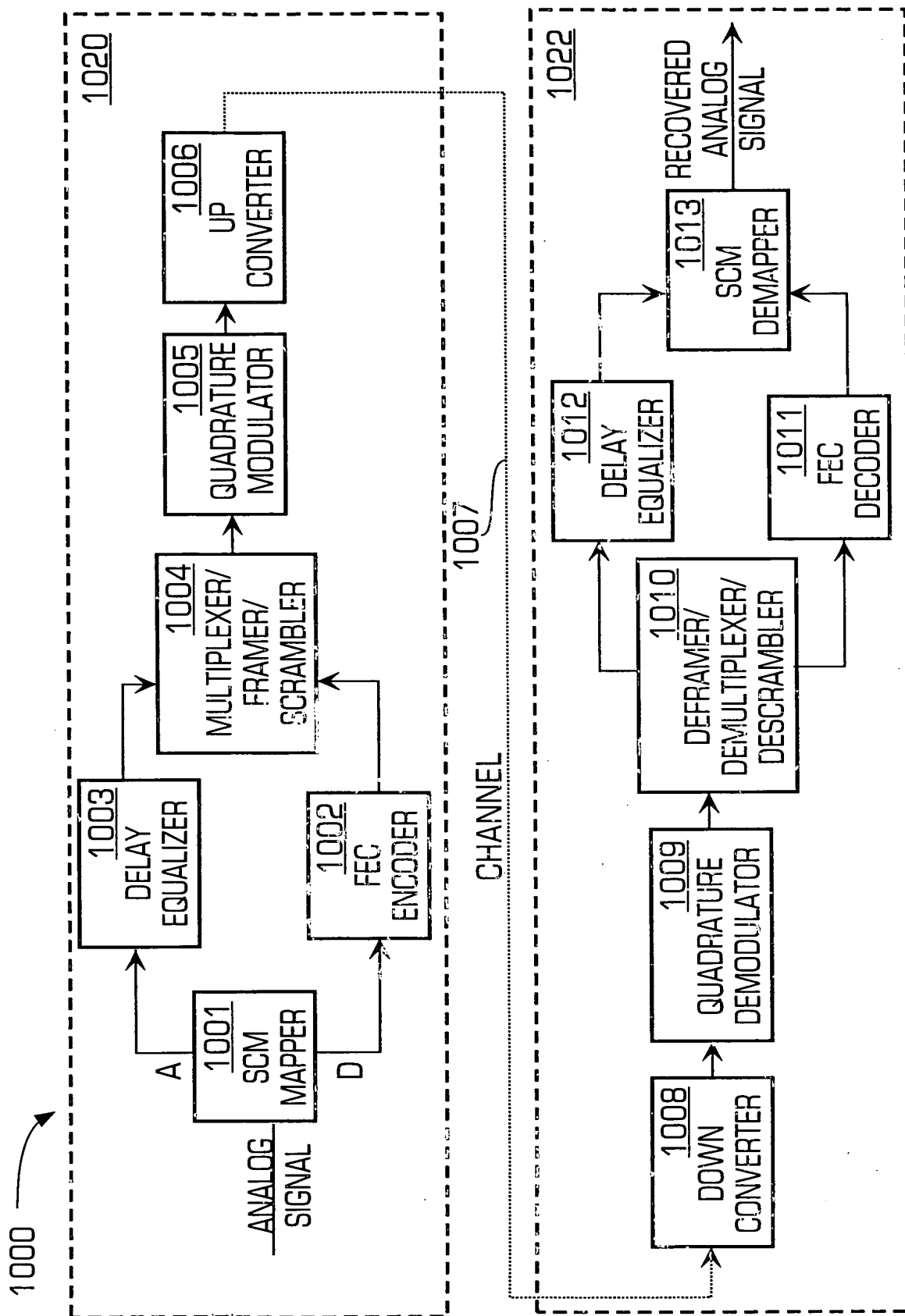


FIG. 10

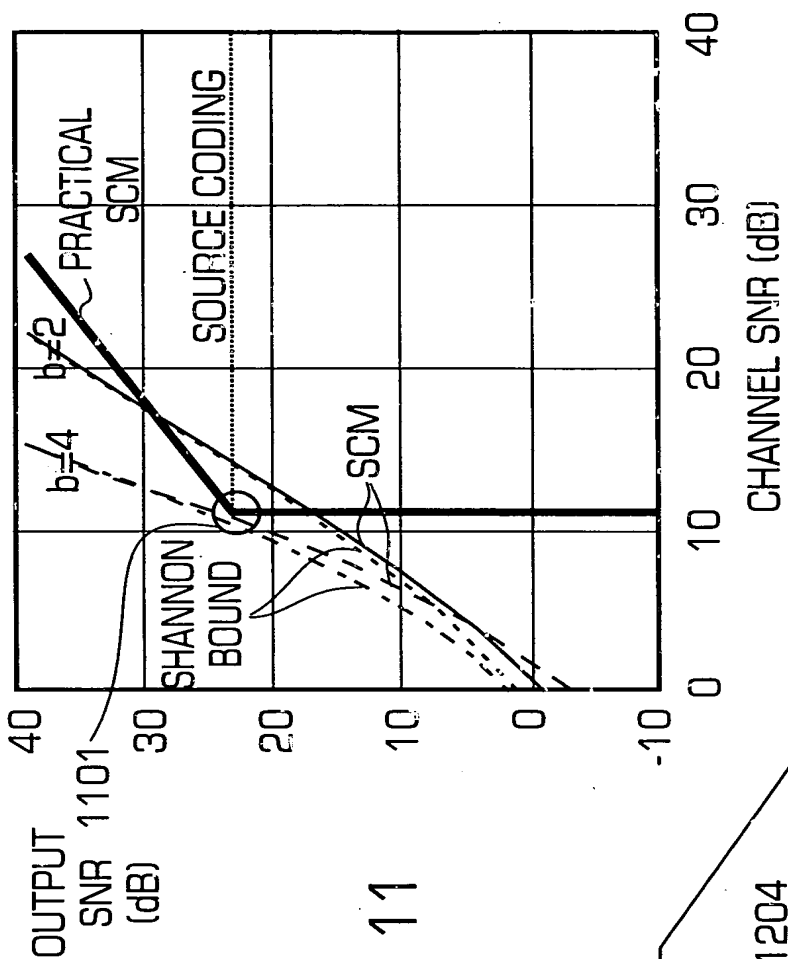


FIG. 11

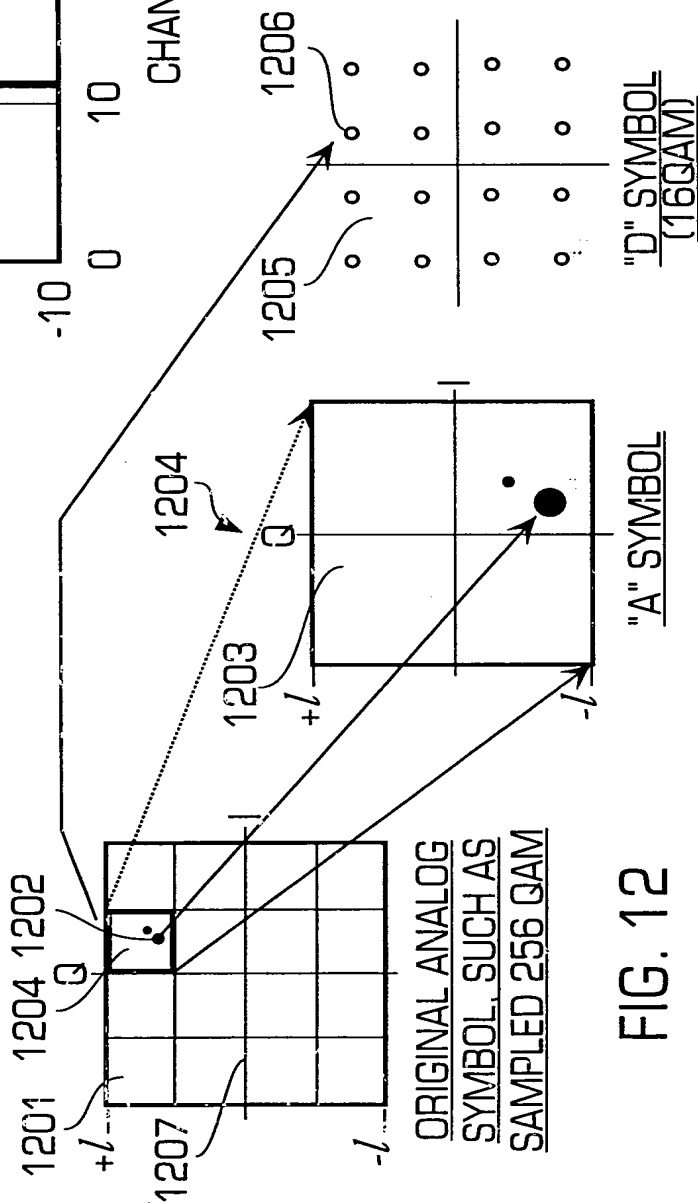


FIG. 12

SCM MAPPING -
BEFORE NONLINEARITY

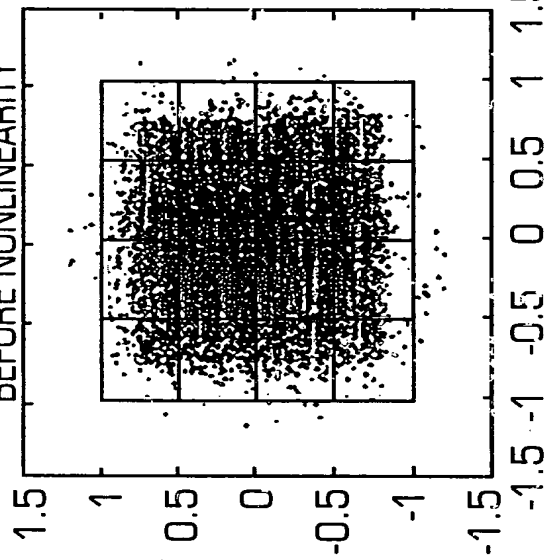


FIG. 17

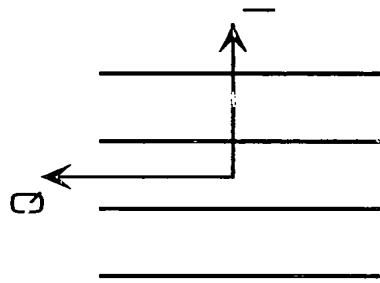


FIG. 13

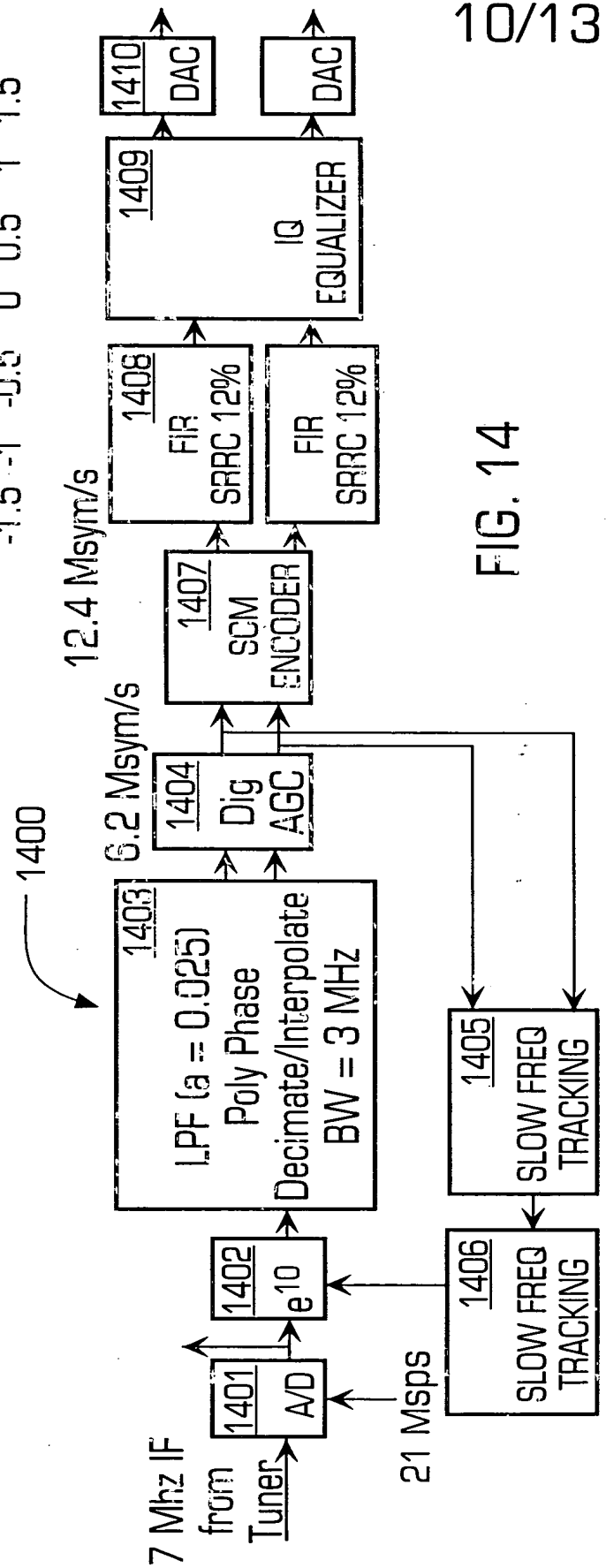


FIG. 14

11/13

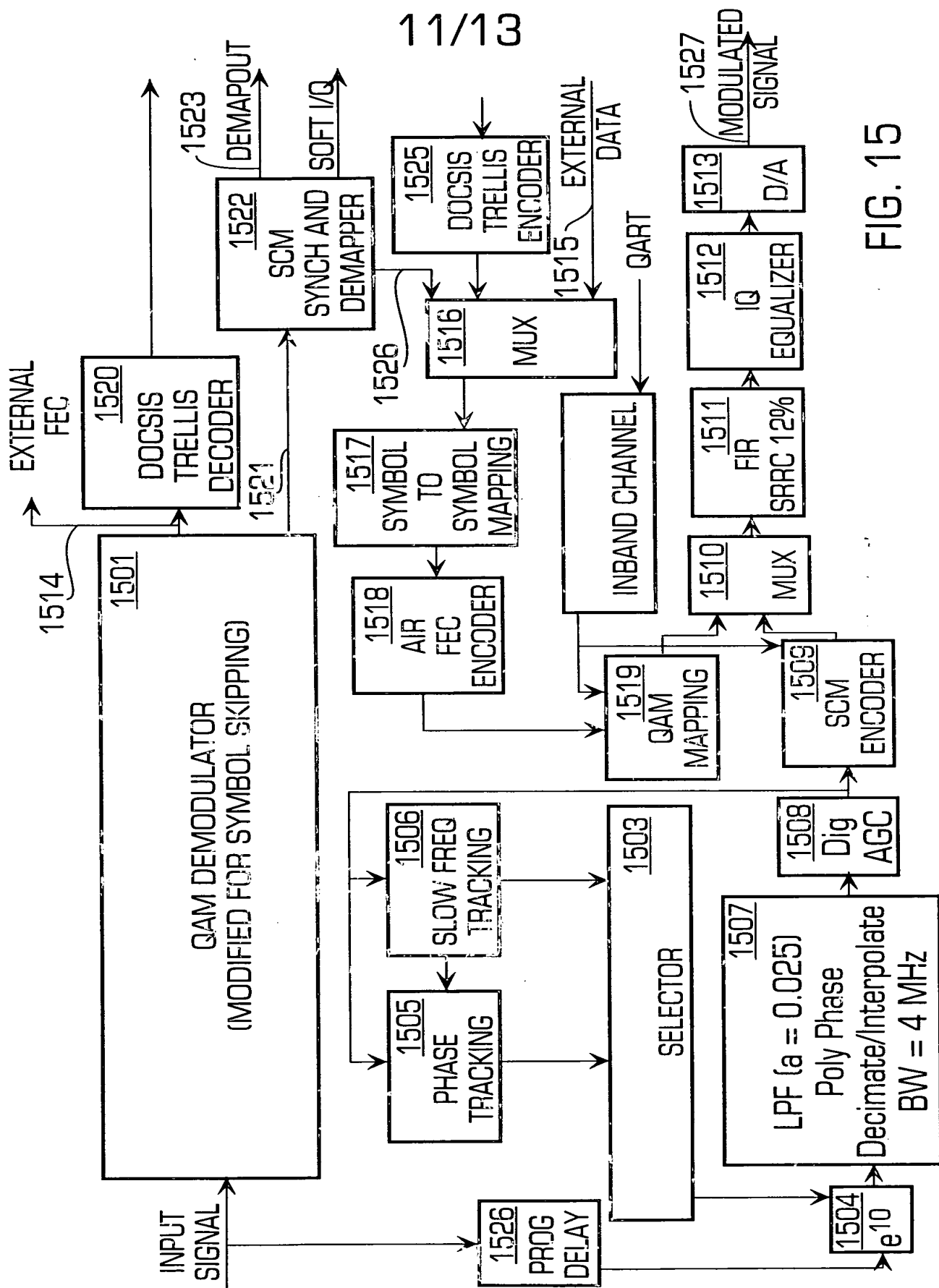


FIG. 15

12/13

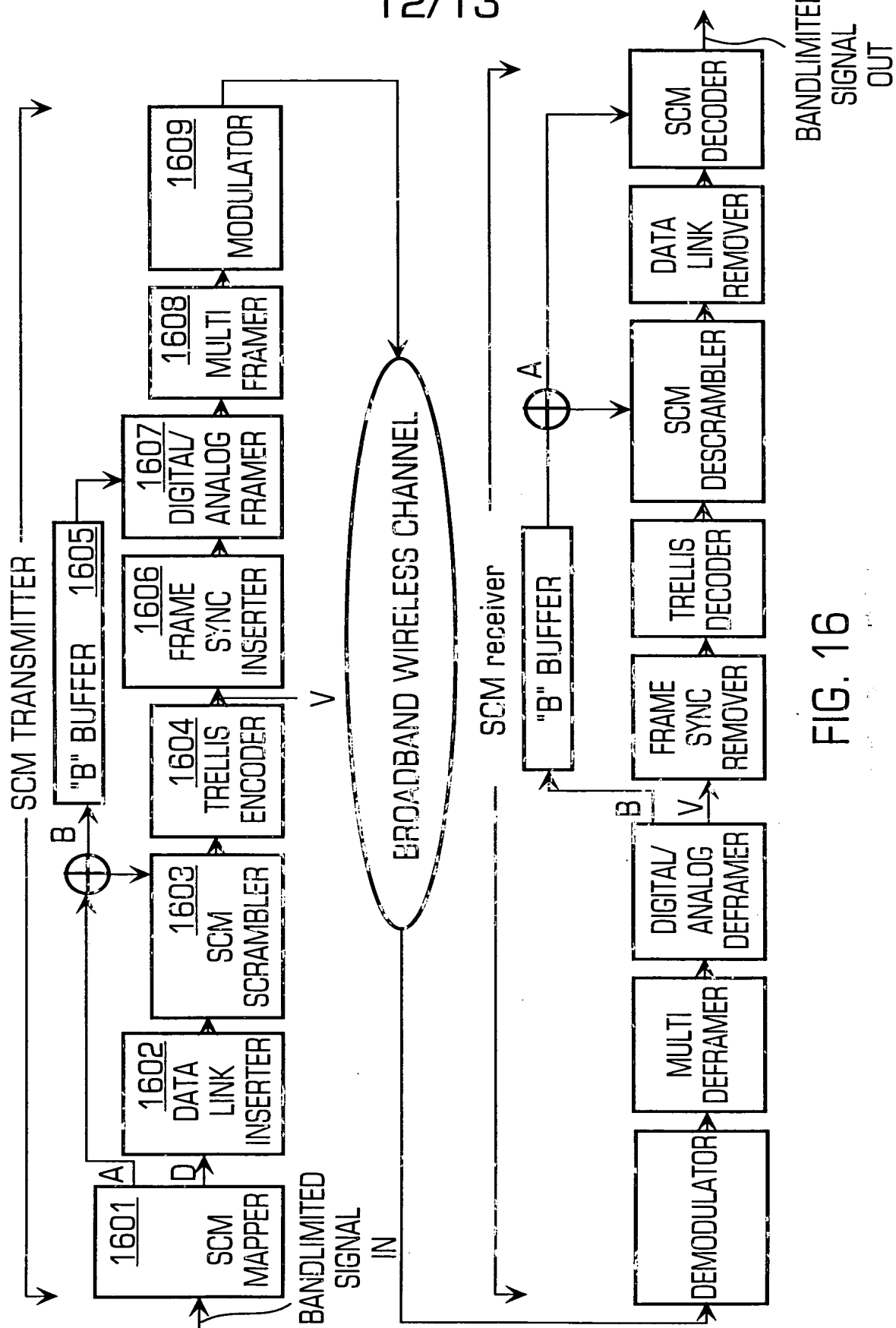


FIG. 16



13/13

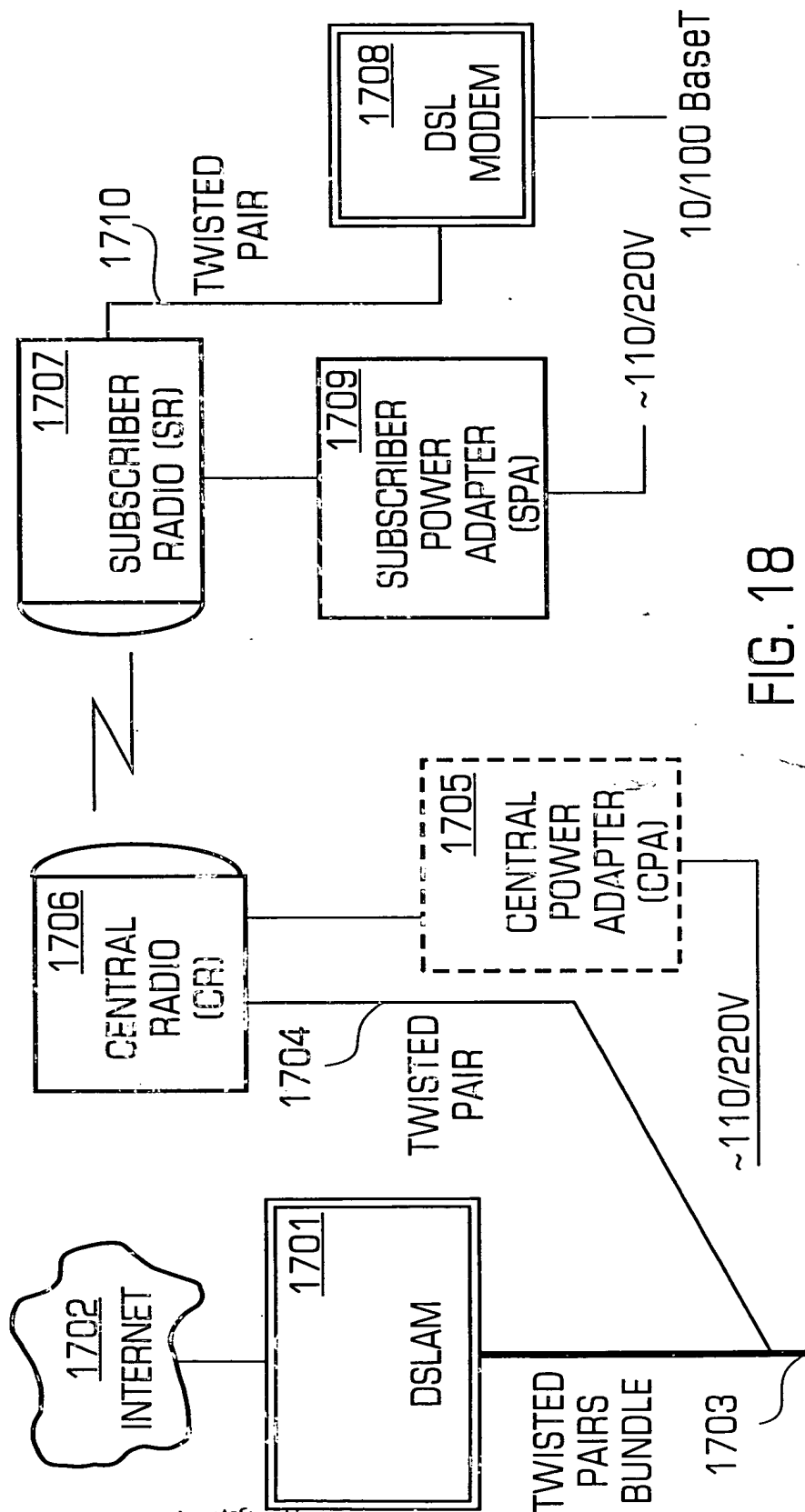


FIG. 18